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APPLICATION N	NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/534,365		12/05/2005	Stefan Virtanen	1515-1034	4900	
466	7590	10/20/2006		EXAM	EXAMINER	
	3 & THON		COLLINS, GI	COLLINS, GIOVANNA M		
745 SOUTH 23RD STREET 2ND FLOOR ARLINGTON, VA 22202				ART UNIT	PAPER NUMBER	
				3672		
				DATE MAILED: 10/20/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/534,365	VIRTANEN					
Office Action Summary	Examiner	Art Unit					
	Giovanna M. Collins	3672					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 09 M							
· <u> </u>	<i>,</i> —						
. ==	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) ⊠ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-7 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or							
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>09 May 2005</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	\square accepted or b) \square objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is objective.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
 12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/9/05.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate					

Application/Control Number: 10/534,365

Art Unit: 3672

DETAILED ACTION

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

The disclosure is objected to because of the following informalities: The section headings have been omitted.

Appropriate correction is required.

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Drawings

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

1. Claims 1-5 and 7 are objected to because of the following informalities:

Claim 1 recites the limitation "said conical segments" in lines 9-10. There is insufficient antecedent basis for this limitation in the claim as this limitation (conical segment) has not been previously recited.

In line 10 of claim 1, the word "segments-" should be changed to - - segment - - .

In line 10 of claim 1, the phrase "said-segments" should be changed to - - said

segments - - .

In line 10 of claim 1, the phrase "at-least" should be changed to - - at least - - .

In lines 2-3 of claims 2-3 and 7, the word "characterised" is used in two lines without using a hyphen.

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In line three of claims 4 and 7, it is not clear exactly what is meant by the phrase "one and the same segment".

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In claim 5, the phrase "(Fig. 3)." should be removed.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Phipps 3258007.

Phipps disclose a reamer assembly (see figs. 1-4) a reamer assembly (11) for widening a drilled pilot hole, wherein the reamer assembly includes a shank (14) for attachment of the reamer to the end of a down-the-hole hammer drill and a conical drill bit (12), characterized in that the conical bit of the reamer is divided into at least three segments (24) which are terminated with a transverse end surface (at 23) which directly connects said conical segments; and in that at least three of said segments include drill buttons (26) that are disposed equidistantly from the centre axis of the drill bit.

Referring to claim 2, Phipps discloses that each segment (24) includes a plurality of drill buttons (26).

Referring to claim 3, Phipps discloses that the drill buttons (26) are placed in mutually the same pattern in each of said segments (24).

Referring to claims 4 and 7, Phipps discloses that a plurality of drill buttons (26) in one and the same segment are disposed equidistantly from the centre of the drill bit (12).

Referring to the claim 5, Phipps discloses that the drill buttons (26) of one segment (24) are disposed so as to lie close to each other in a common plane projection.

Referring to claim 6, Phipps discloses that drill buttons (25) are provided in the transverse end surface (23) of the drill bit (12).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Giovanna M. Collins whose telephone number is 571-272-7027. The examiner can normally be reached on 6:30-3 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

gmc

Giovanna M. Collins
Patent Examiner
Technology Center 3670